

MODULES FOR ONE MONTH TRAINING PROGRAM IN ORGANIC / MEDICINAL CHEMISTRY
RESEARCH LAB
AT PERD CENTRE

Name of the module	Working in Organic / Medicinal Chemistry Research Labs
Techniques covers	<ol style="list-style-type: none">1. Lecture:<ul style="list-style-type: none">• Set up of organic lab• Proper placement and precautions for chemicals & solvents• Basic requirements to work in organic chemistry lab• Writing of Notebook• Protocol: From Setting up a reaction to purification• Safety aspects and preventive measures2. Training:<ul style="list-style-type: none">• Setting up, monitoring and work-up of a reaction• Purification of the desired product (chromatography techniques)• Use of different instruments and equipment during reactions.3. Identification of the product :<ul style="list-style-type: none">• Determination of Melting point• Recording of IR spectra and its interpretation• Recording of Mass spectra and its interpretation4. Learning of special reaction techniques*:<ul style="list-style-type: none">• Inert atmosphere reaction• Conducting Reactions Below Room Temperature• Green Chemistry• Drying of solvents

- Number of students: Limited to 15 -20 students
- Charges : Rs.15,000/ [18 % GST] per student. Covers topic 1, 2 and 3
- *Additional Rs. 7000/ per student and one more month for covering topics under 4 [Learning of special reaction techniques]